

5.4 p 242-243 16-38 EVEN

$$16. \quad 6a^2b^2 + 18ab^3 \\ 6ab^2(a + 3b)$$

$$30. \quad x^2 - 6x + 9 \\ (x - 3)^2$$

18. prime

$$32. \quad 3m^2 - 3n^2 \\ 3(m^2 - n^2)$$

$$20. \quad 3ax - 15a + x - 5 \\ 3a(x - 5) + 1(x - 5) \\ (3a + 1)(x - 5)$$

$$3(m + n)(m - n)$$

$$22. \quad y^2 - 5y + 4 \\ (y - 1)(y - 4)$$

$$\begin{array}{r} 4 \\ -1 \times -4 \\ -5 \end{array}$$

$$34. \quad 3x^2 - 27y^2 \\ 3(x^2 - 9y^2) \\ 3(x + 3y)(x - 3y)$$

$$24. \quad 2b^2 + 13b - 7$$

$$\begin{array}{r} -14 \\ 14 \times -1 \\ 13 \end{array}$$

$$2b^2 + 14b - b - 7$$

$$2b(b + 7) - 1(b + 7)$$

$$(2b - 1)(b + 7)$$

$$36. \quad t^3 - 8$$

$$(t - 2)(t^2 + 2t + 4)$$

$$38. \quad x^4 - 81$$

$$(x^2 + 9)(x^2 - 9)$$

$$(x^2 + 9)(x + 3)(x - 3)$$

$$26. \quad 12m^2 - m - 6$$

$$\begin{array}{r} -72 \\ 8 \times -9 \\ -1 \end{array}$$

$$12m^2 + 8m - 9m - 6$$

$$4m(3m + 2) - 3(3m + 2)$$

$$(4m - 3)(3m + 2)$$

$$28. \quad 3z^2 + 24z + 45$$

$$3(z^2 + 8z + 15)$$

$$3(z + 3)(z + 5)$$

$$\begin{array}{r} 15 \\ 3 \times 5 \\ 8 \end{array}$$